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| APPLICATION NO.                  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------------------|-------------|----------------------|---------------------|------------------|
| 10/606,738                       | 06/27/2003  | Kazukiyo Yamamoto    | 2003_0878A          | 5325             |
| 513                              | 7590        | 05/03/2004           | EXAMINER            |                  |
| WENDEROTH, LIND & PONACK, L.L.P. |             |                      | TRINH, MINH N       |                  |
| 2033 K STREET N. W.              |             |                      | ART UNIT            |                  |
| SUITE 800                        |             |                      | PAPER NUMBER        |                  |
| WASHINGTON, DC 20006-1021        |             |                      | 3729                |                  |

DATE MAILED: 05/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/606,738

**Applicant(s)**

YAMAMOTO ET AL.

**Examiner**

Minh Trinh

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 27 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 3 is/are rejected.
- 7) ☒ Claim(s) 2 and 4 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 11/04/03.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Specification***

1. The abstract of the disclosure should be revised to read on the claimed method invention. Correction is required. See MPEP § 608.01(b).

### ***Claim Objections***

2. "A method" (claims 2-4, line 1) should be changed to: --The method-- to read on the dependent claim formats.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krurogi et al (6,209,776) in view of Nakaya (2003/0010813).

Krurogi et al disclose a method for connecting a coated lead wire to a terminal of a coil bobbin, comprising the steps of placing a pair of electrodes 40's having heating portions vertically opposite to each other, entwining said coated lead wire around said terminal of said coil bobbin (see Fig. 4, depicts a coated lead wire, a terminal and a pair of electrodes 40), placing said terminal entwined with said coated lead wire on a solder (see col. 2, lines 12-13), putting said terminal entwined with said coated lead wire

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placed on said solder into between said electrodes 40 (col. 2, lines 40-43), supplying electric currents to said electrodes to heat said heating portions for melting said solder while exerting pressure to said terminal entwined with said coated lead wire between said electrodes, and releasing the pressure exerted to the terminal entwined with said core wire after a lapse of a prescribed period of time from commencement of generating heat at said heating portions of said electrodes and exerting pressure to said terminal entwined with said coated lead wire (as discussed at col. 4, lines 55-62). Krurogi et al do not teach a step of directing a blow of inert gas toward said terminal entwined with said coated lead wire placed on said solder between said electrodes. Nakaya teaches the step as described above (i.e. the use of inert gas during the process of soldering as discussed in page 7, col. 2, lines 18-19). Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to employ the Nakaya's teaching as described above onto the invention of Krurogi et al in order to facilitate the fabrication process by using the known and available techniques. The motivation for this combination can be found at page 7, col. 1, paragraph [0122] of Nakaya.

As applied to claim 3, regarding inert gas is nitrogen. It would have been an obvious matter of design choice to choose nitrogen as an inert gas since applicant has not disclosed that this particularly associated feature is critical, and is patentably distinguished feature and it appears that the invention would perform equally well with the conventional inert gas as disclosed by Nakaya reference.

***Allowable Subject Matter***

5. Claims 2 and 4 would be allowable if rewritten to overcome the objection(s), set forth in this Office action if rewritten in independent form and to include all of the limitations of the base claim and any intervening claims.

### ***Prior Art References***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Prior art references are cited for their teaching of method for connecting lead wire to a terminal, or the like.

### ***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Trinh whose telephone number is (703) 305-2887.

The examiner can normally be reached on Monday -Thursday 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (703) 308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Minh Trinh  
Patent Examiner Group 3729